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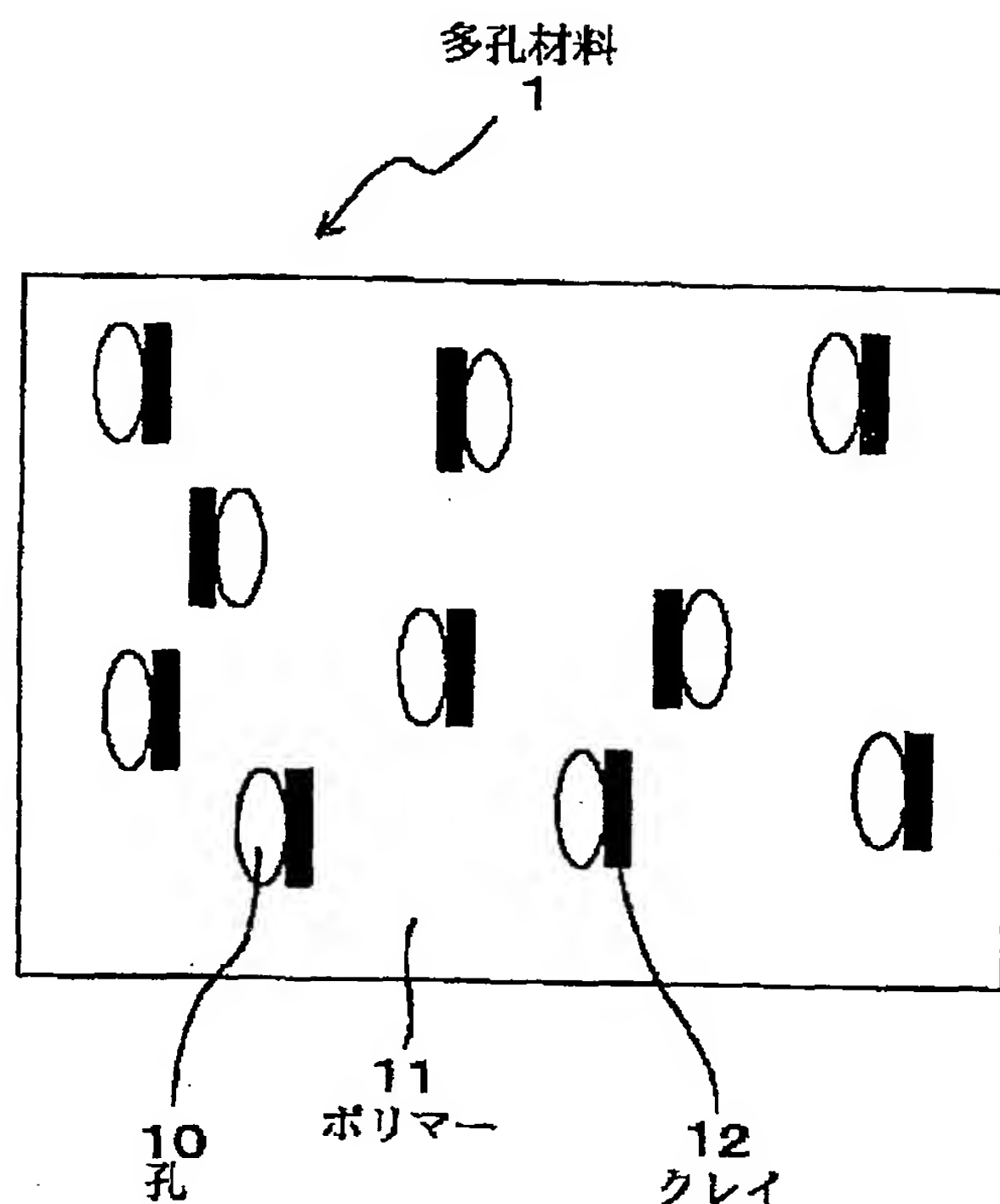
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TITLE : POROUS MATERIAL AND ITS
PRODUCTION



ABSTRACT : **PROBLEM TO BE SOLVED:** To obtain a porous material capable of selectively permeating an ionic substance through pores realized by clay, which is made from a composite polymeric material comprising a polymer and an organomodified clay dispersed therein and has many pores.

SOLUTION: This is a porous material 1 prepared by stretching a composition prepared by dispersing 0.01-200 pts.wt. organomodified clay 12 in 100 pts.wt. polymer 11 and having many pores having a mean particle pore diameter of 0.1 nm to 10 μ m. The organomodified clay 12 is obtained by reacting a clay with an organomodifying agent. The clay used is a layered silicate mineral exemplified by montmorillonite, vermiculite, or wettable mica, and the organomodifying agent is a 6C or higher organic onium ion exemplified by a hexylammonium ion or octylammonium ion. The polymer 11 which can be composited with the organomodified clay 12 is exemplified by a thermoplastic resin such as a polyethylene or a polyamide, a thermosetting resin such as an epoxy resin or a phenolic resin, or a modified polymer.

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